

FIG. 1

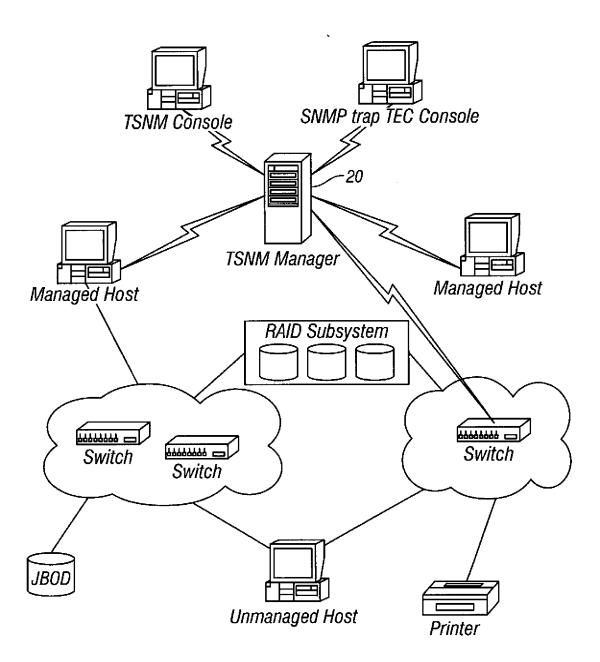
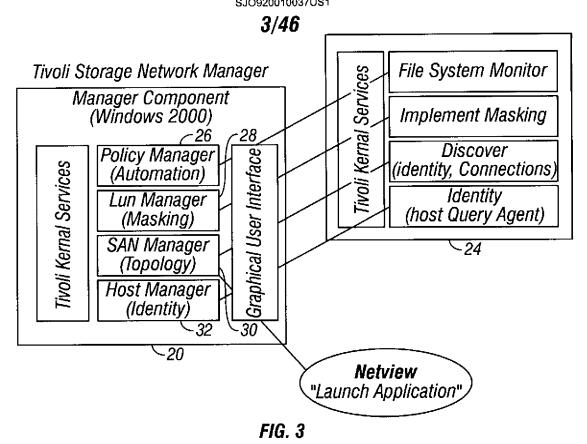


FIG. 2



Manager & Agent Communication

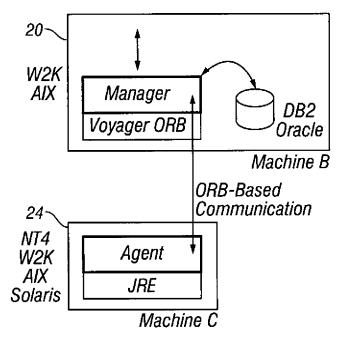
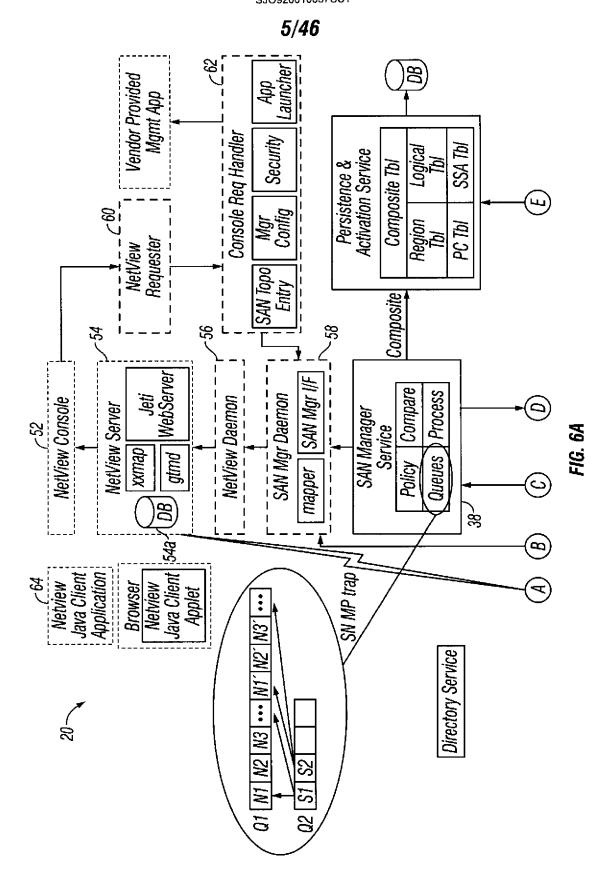


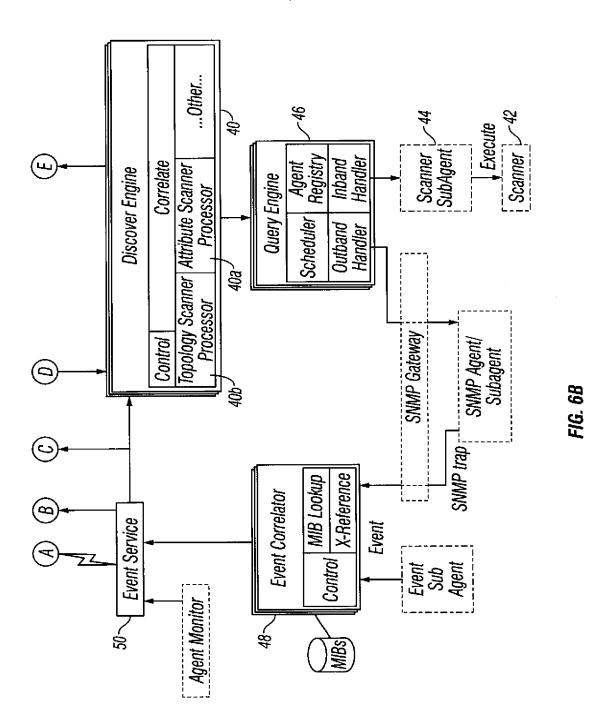
FIG. 4

MANAGER	Network Management LUN Management Extension Common Extension	SANEventCorrelatorFactory, SANLunMgt SANStorAuto SANIndex, SANLicense SANHostMgr, OutbandChangeAgent	Framework	
	Network Manage SANManagerService, SAI	SANEventCorrélato SANHostMgr, OutbandC		

FIG. 5



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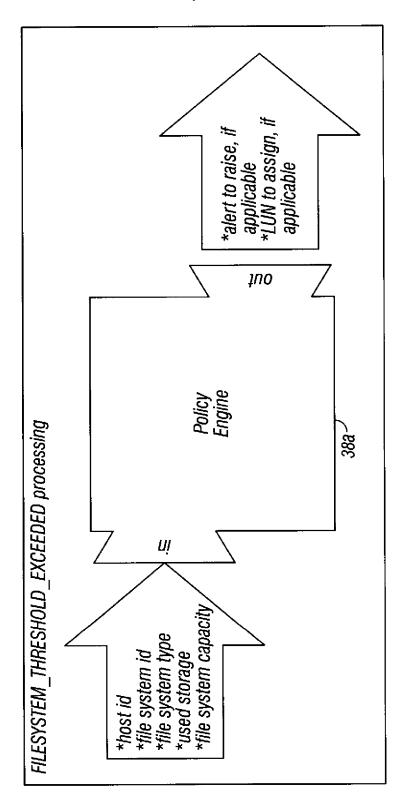


FIG. 7A

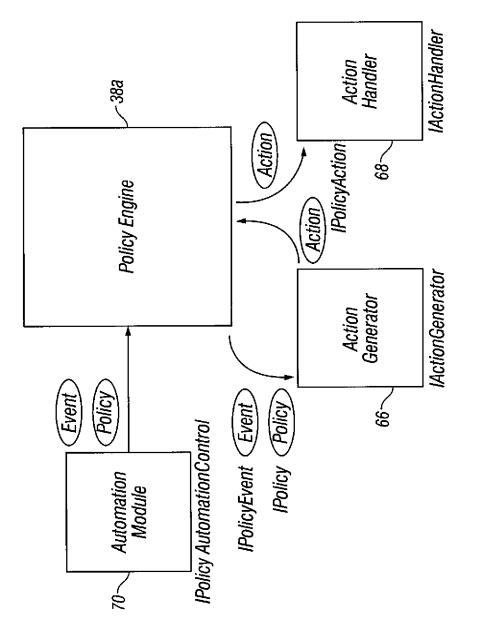


FIG. 7B

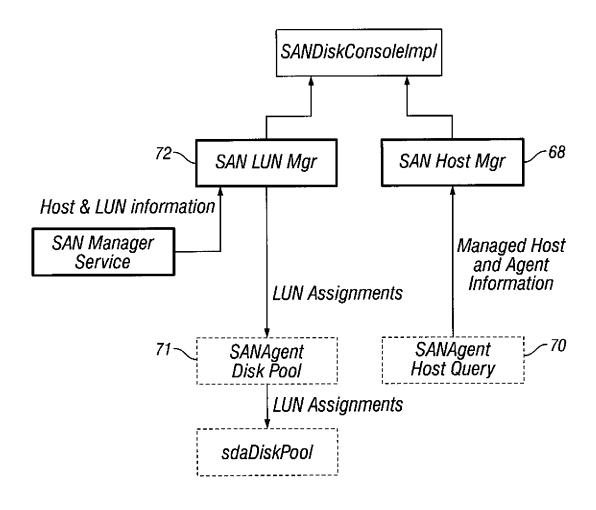


FIG. 8

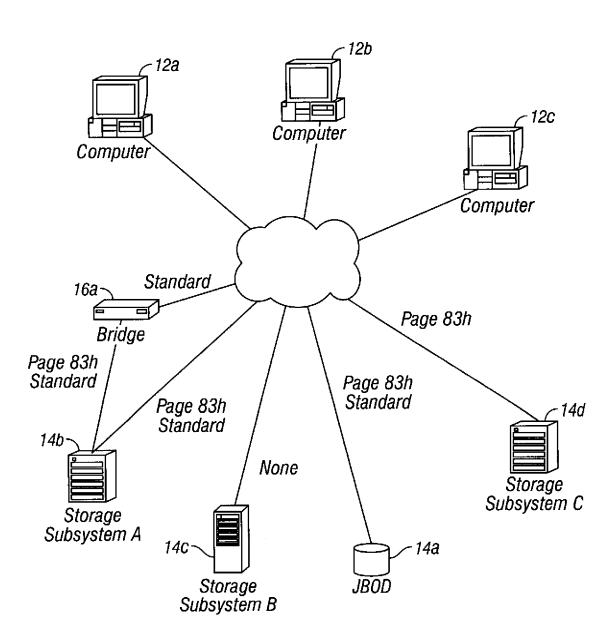
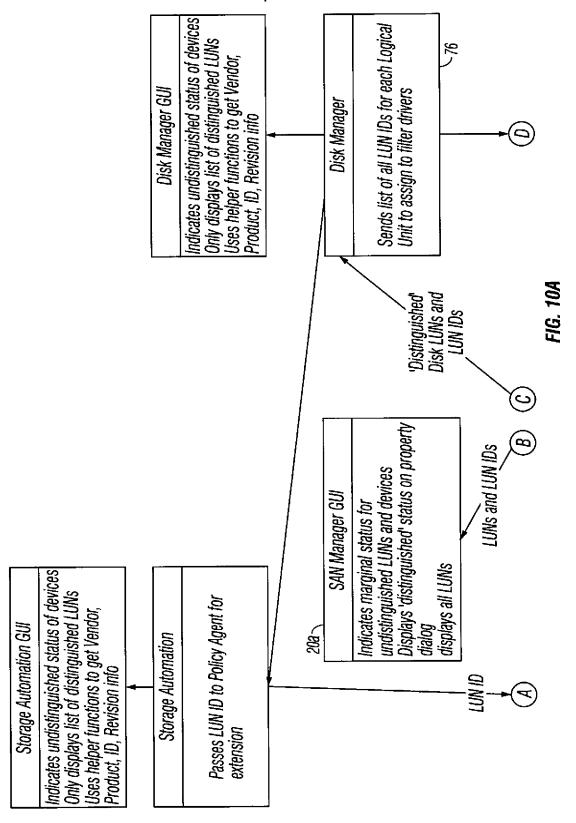


FIG. 9





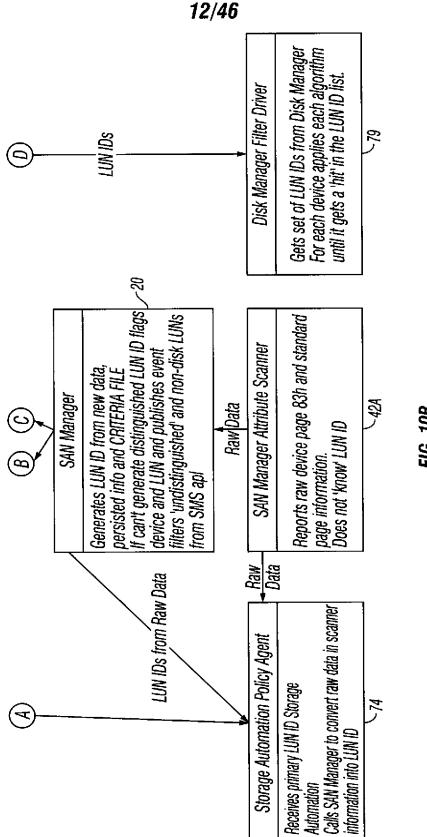
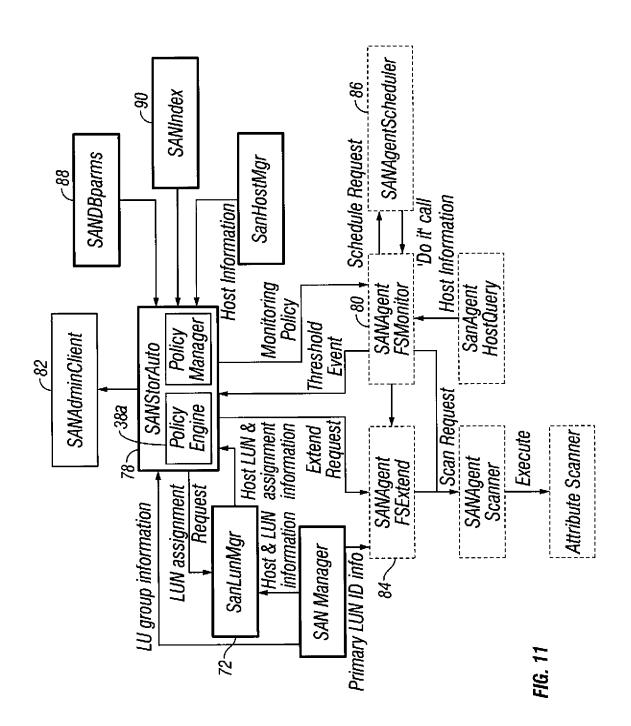
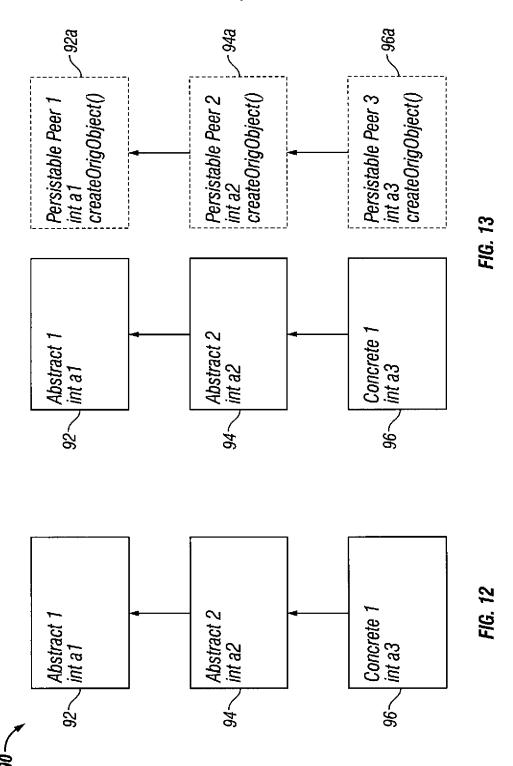


FIG. 10B

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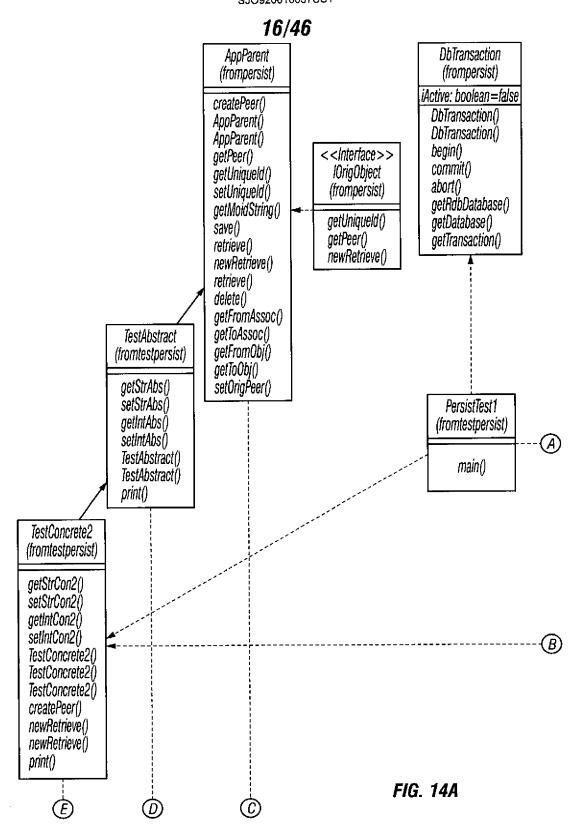


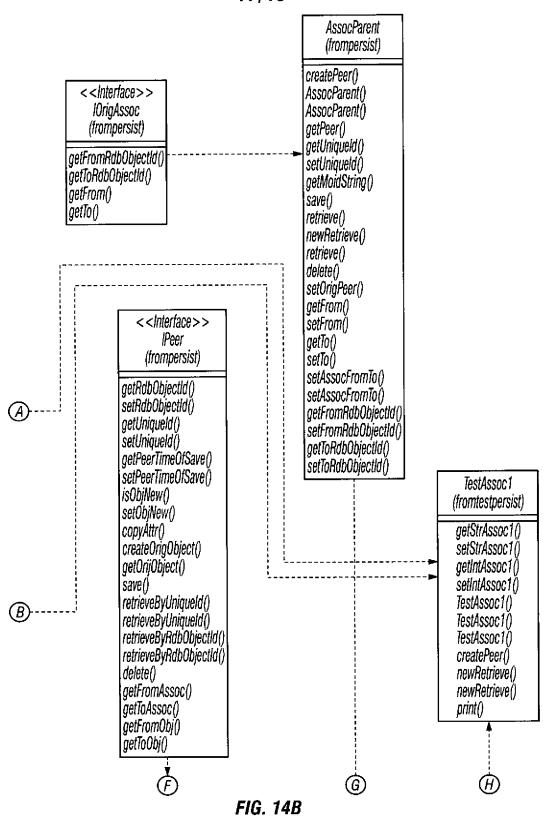


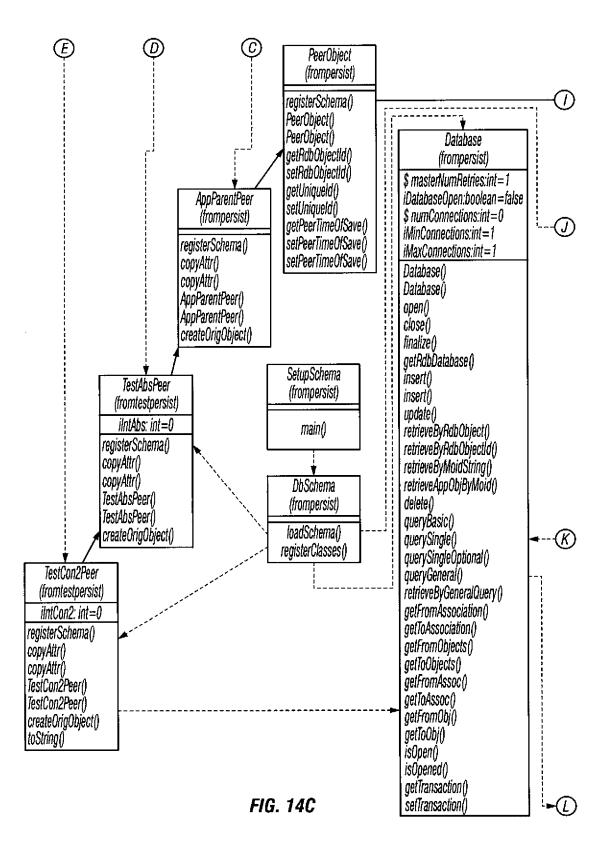
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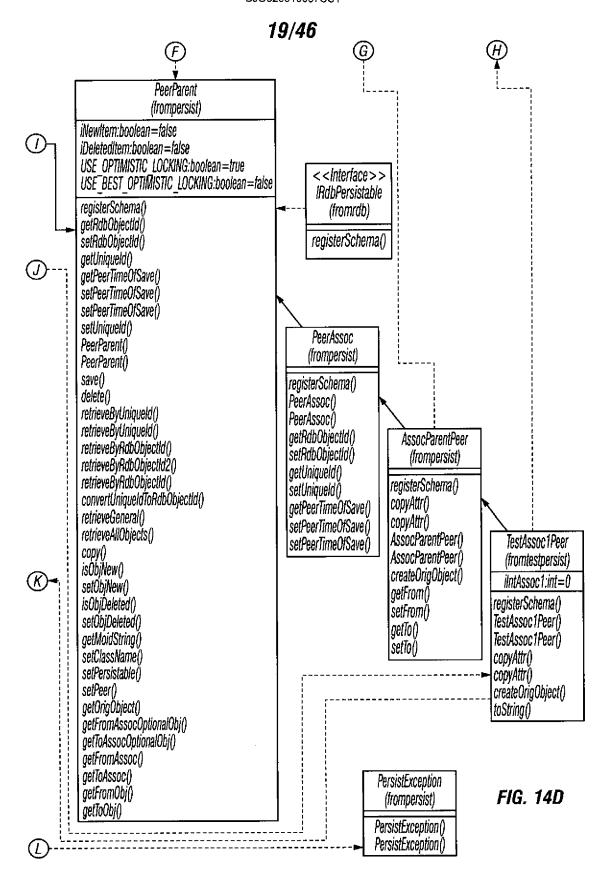
FIG. 14A	FIG. 14B
FIG. 14C	FIG. 14D

FIG. 14











- Manager creates objects (services) and "bind" them to Voyager directory service
- GUI "fooks up" the object by name in directory service and get the object "proxy"
- GUI invokes object methods to obtain info or perform operation

TCP/IP - ORB

Presentation

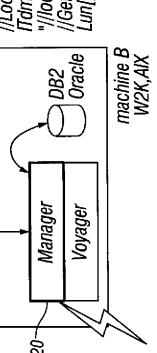
GUI server

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Example: Class TDMServer()
LUN[] getAccessibleLunsByHost(HostaHost)
LUN[] getAccessibleLunsByHost(java.lang.String ip)
LUN[] getAllAccessibleLuns()
LUN[] getAssignedLunsByHost(HostaHost)
LUN[] getAssignedLunsByHost(java.lang.String ip)

//Look up the ITdm Server proxy object from the directory service ITdmServeraTdm=(ITdm Server) Namespace.lookup("//localhost:9000/sandir/TdmServer"); //Get a list of all LUN objects in the region. Lun[] temp1=aTdm.getAllAccessibleLuns();

FIG. 15

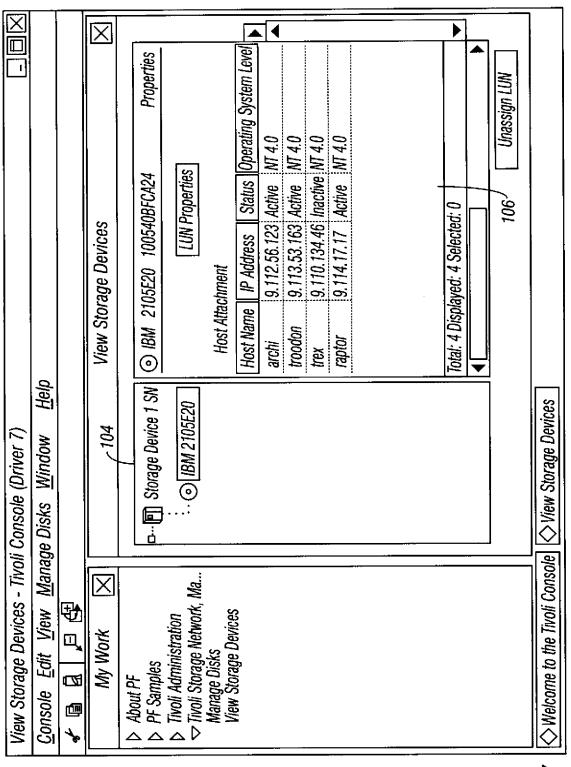


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X									1	
					Type of Storage Device disk type	Product Id Product Id	Vital Product Data Vital Product Data		Unassign LUN	
			View Storage Devices	Storage Device 1 SN	Serial Number Storage Device 1 SN	External Label External Label	Vendor Vendor	i		
sole (Driver 7)	isks Window Help									View Storage Devices
ivoli Cor	anage Di			_ _					<u></u>	sole 🛇
View Storage Devices - Tivoli Console (Driver 7)	Console Edit View Manage Disks	多可 图 图 多	My Work	About PF PF Samples	 ▶ Tivoli Administration ¬ Tivoli Storage Network, Ma Manage Disks 	View Storage Devices				♦ Welcome to the Tivoli Console ♦ View Storage Devices

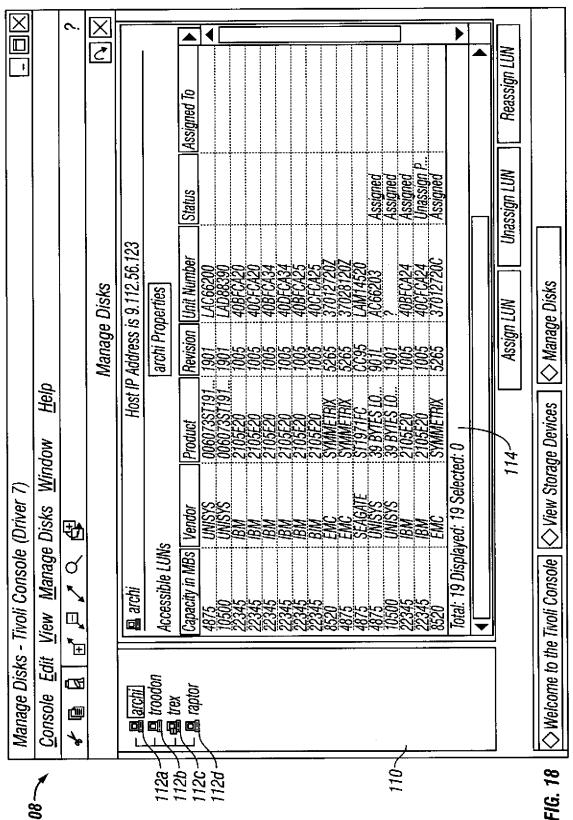
FIG. 16

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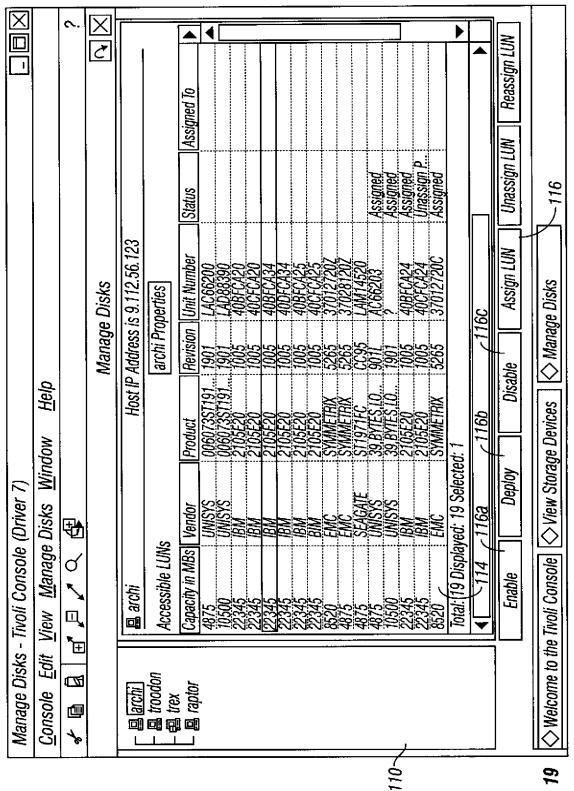


102.

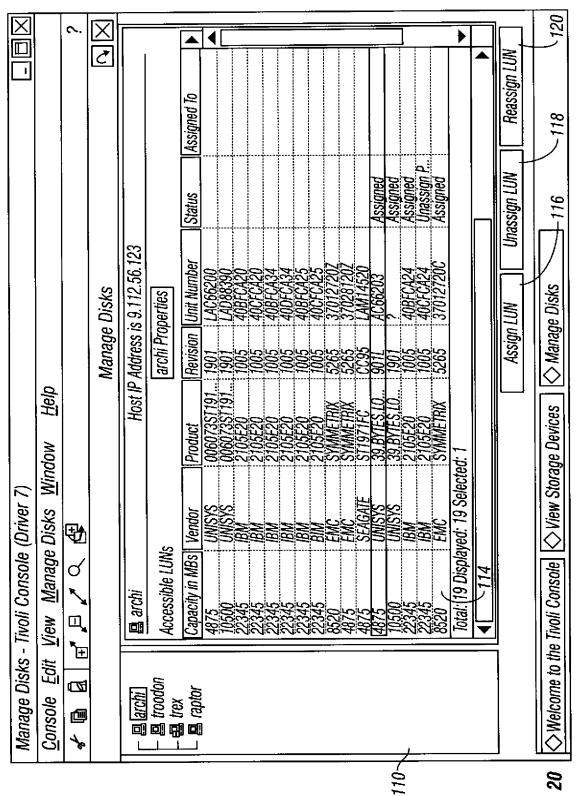
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51 11



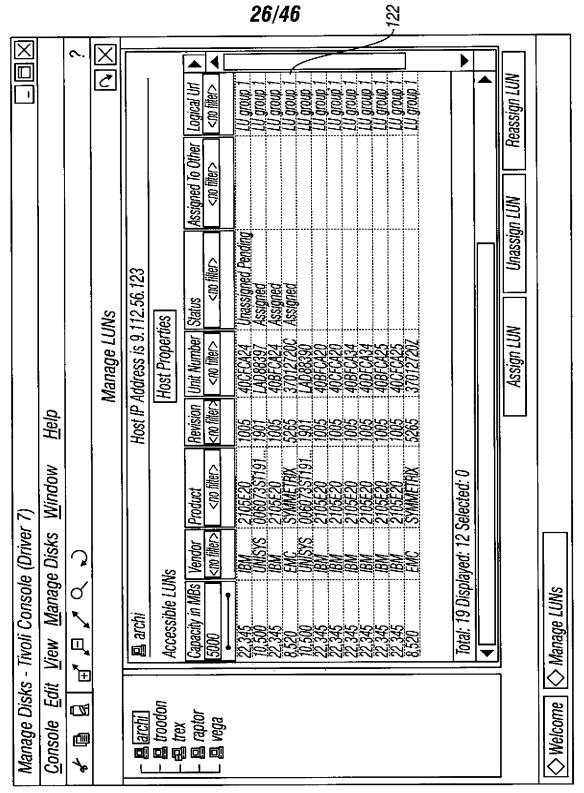


FIG. 21

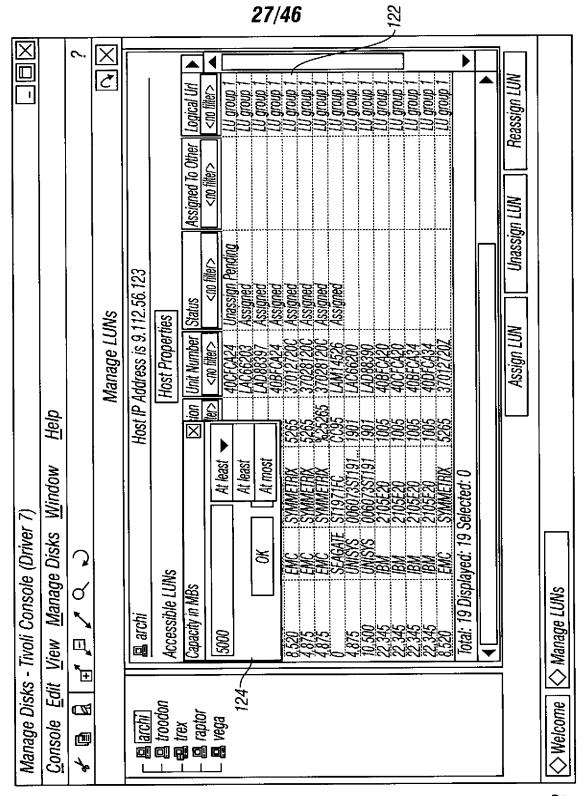


FIG. 22

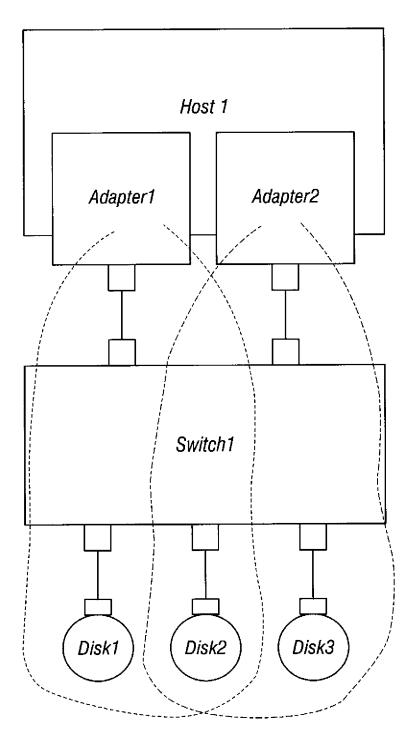
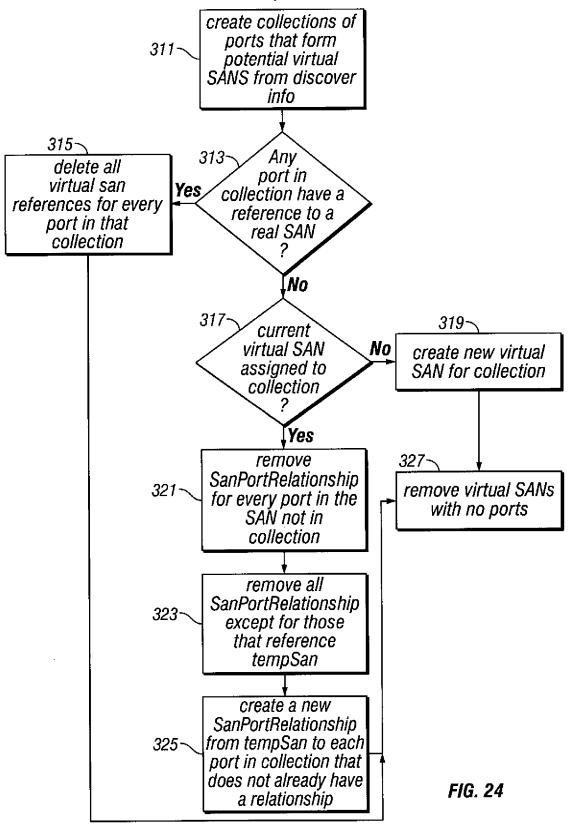
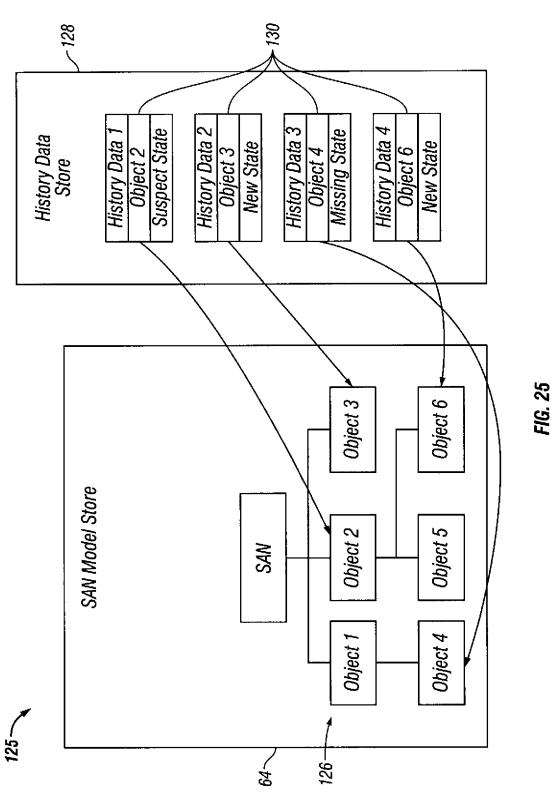


FIG. 23







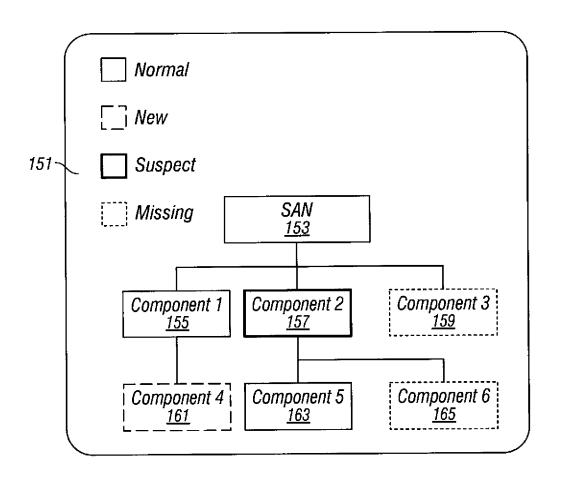


FIG. 26

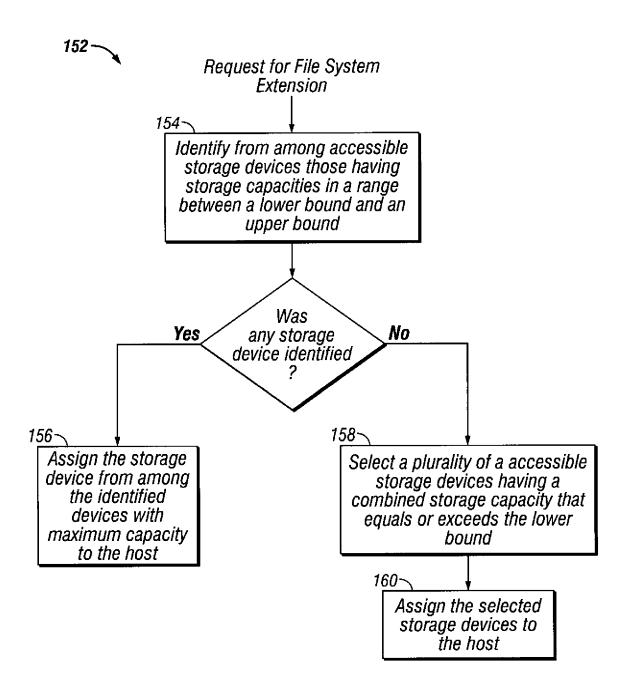
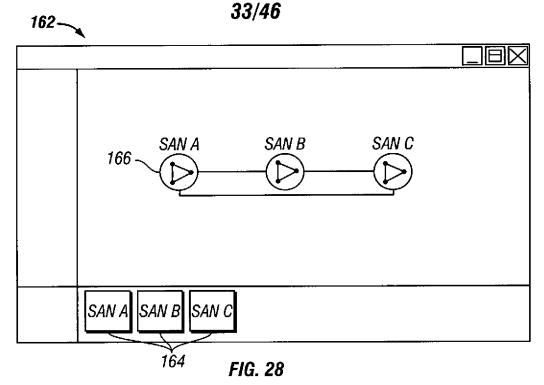


FIG. 27

SJO920010037



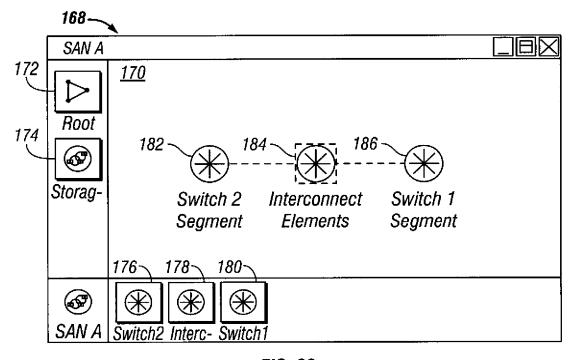


FIG. 29

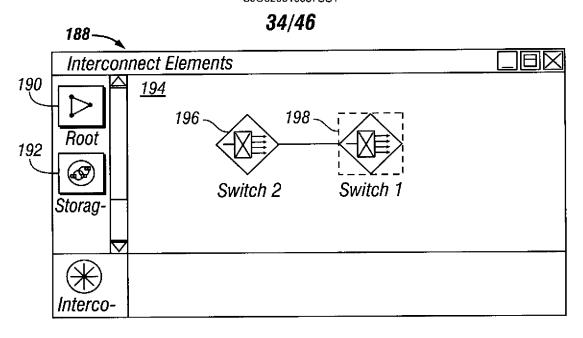


FIG. 30

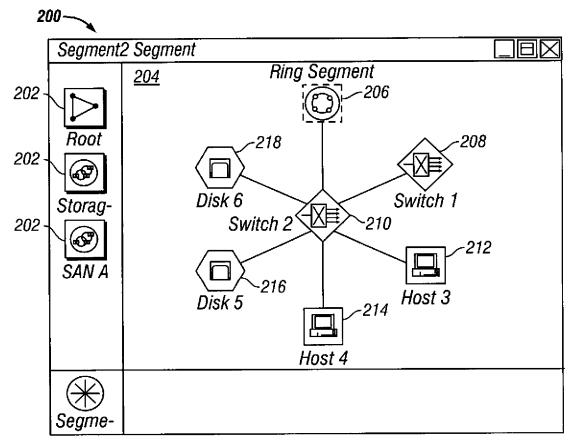


FIG. 31

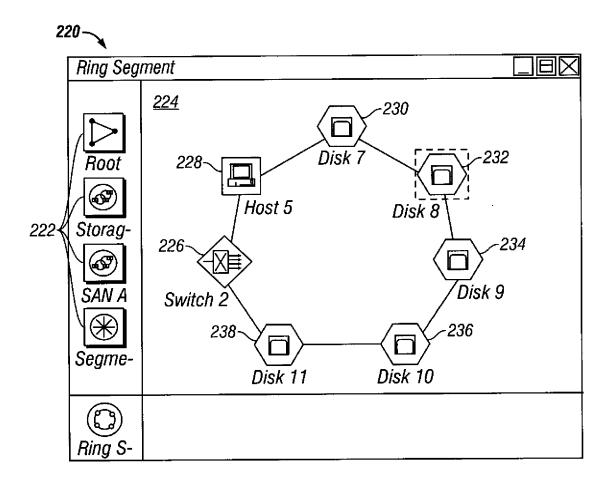
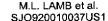
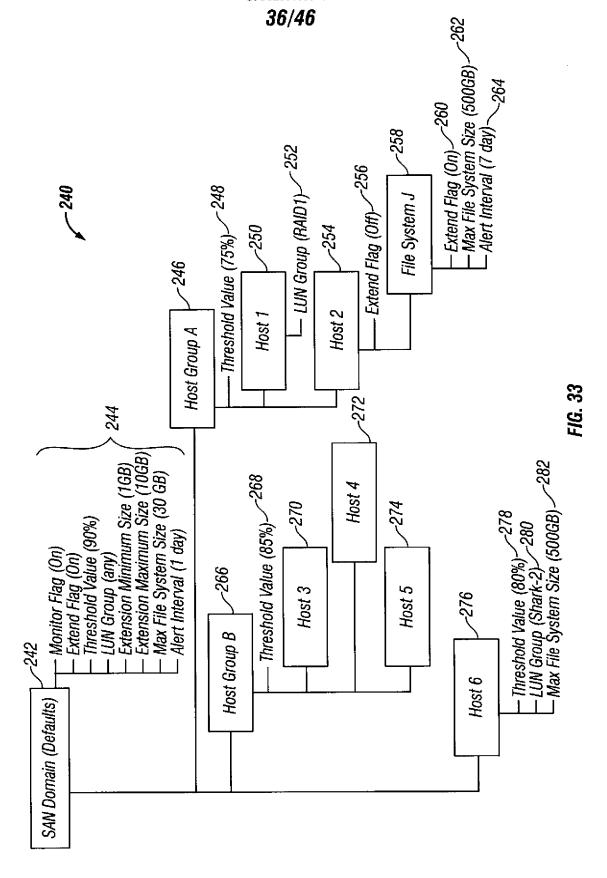


FIG. 32





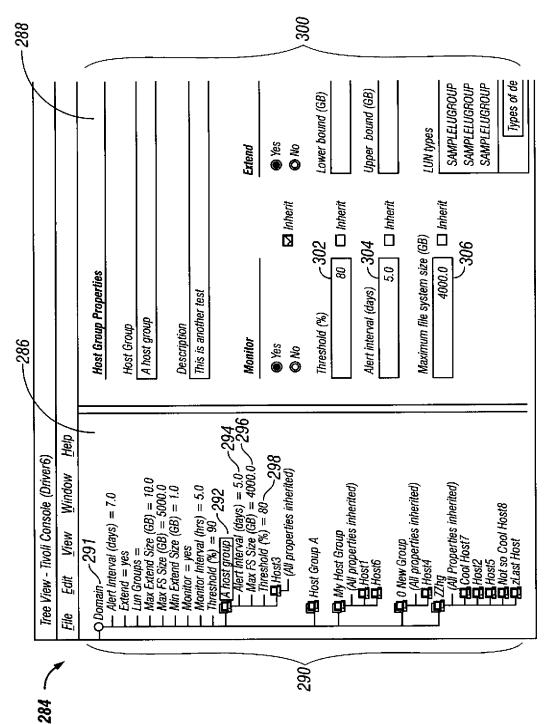


FIG. 34

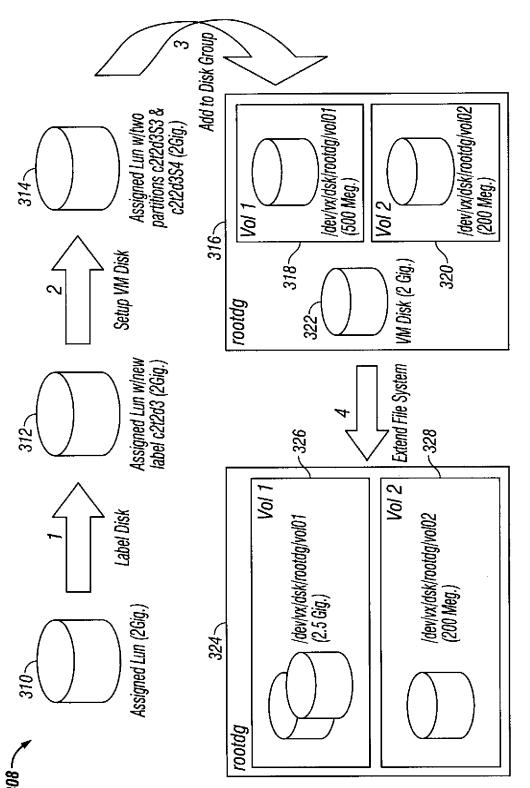


FIG. 35

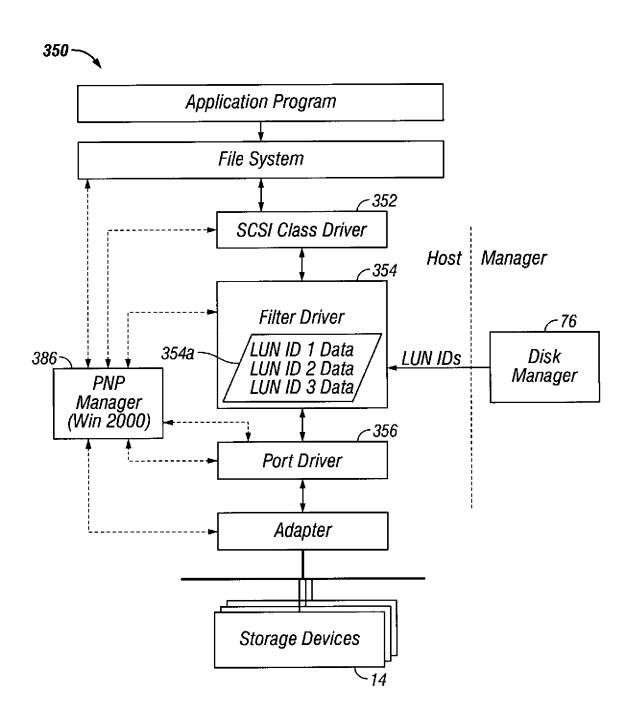
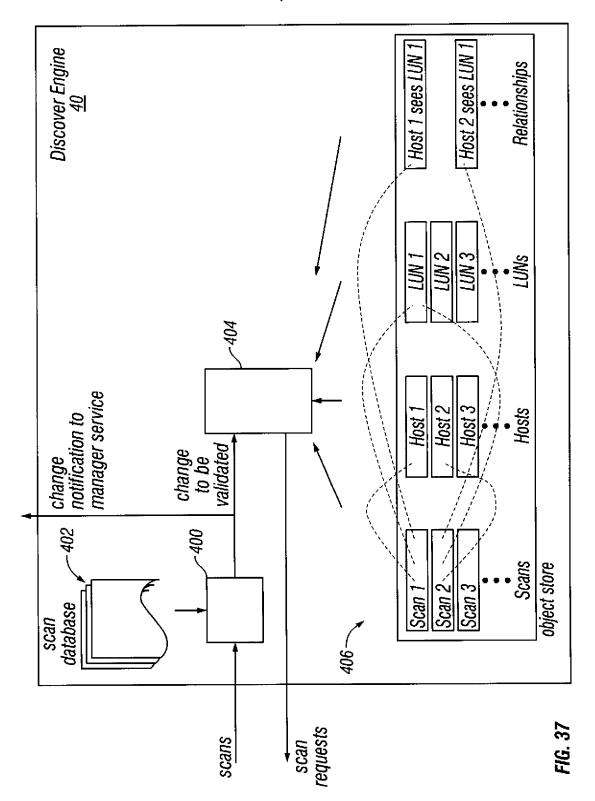
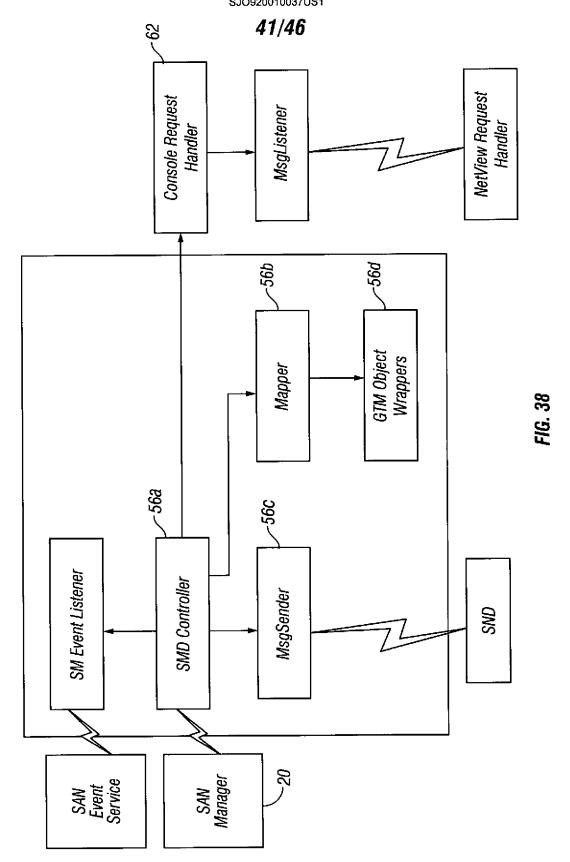


FIG. 36







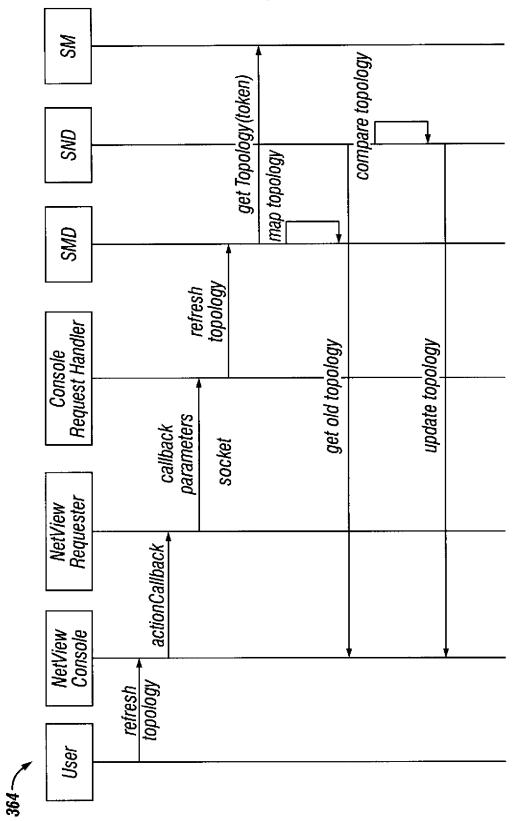


FIG. 39

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